

JUN 06 2002

Sheet 1 of 2

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 08919-075001	Application No. 10/034,459
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Huan-Cheng Chang et al.	
		Filing Date December 28, 2001	Group Art Unit 2881
(37 CFR §1.98(b))			

U.S. Patent Documents

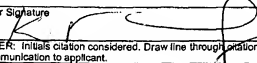
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes No
	AI						
	AI						
	AJ						
	AK						

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
KF	AL	Bohren and Huffman, "Absorption and scattering of light by small particles" (Table of Contents only) (1983)
KF	AM	Bruce et al., "Trapping, Detection, and Mass Measurement of Individual Ions in a Fourier Transform Ion Cyclotron Resonance Mass Spectrometer", <i>J. Am. Chem. Soc.</i> , 116:7839-7847 (1994)
KF	AN	Cheng et al., "Charge-State Shifting of Individual Multiply-Charged Ions of Bovine Albumin Dimer and Molecular Weight Determination Using an Individual-Ion Approach", <i>Anal. Chem.</i> , 66:2084-2087 (1994)
KF	AO	Cleven et al., "Radial Distributions and Ejection Times of Molecular Ions in an Ion Trap Mass Spectrometer: A Laser Tomography Study of Effects of Ion Density and Molecular Type", <i>J. Phys. Chem.</i> , 100:40-46 (1996)
KF	AP	Cox et al., "Mass shifts and local space charge effects observed in the quadrupole ion trap at higher resolution", <i>International Journal of Mass Spectrometry and Ion Processes</i> , 144:47-65 (1995)
KF	AQ	Davis, "A History of Single Aerosol Particle Levitation", <i>Aerosol Science and Technology</i> , 26:212-254 (1997)
KF	AR	Fenn et al., "Electrospray Ionization for Mass Spectrometry of Large Biomolecules", <i>Science</i> , 246:64-71 (1989)

Examiner Signature 	Date Considered 10-31-03
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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KF	AS	Fuerstenau and Benner, "Molecular Weight Determination of Megadalton DNA Electrospray Ions Using Charge Detection Time-of-flight Mass Spectrometry", <i>Rapid Communications in Mass Spectrometry</i> , 9:1528-1538 (1995)
	AT	Fuerstenau et al., "Mass Spectrometry of an Intact Virus", <i>Angew. Chem. Int. Ed.</i> , 40:542-544 (2001)
	AU	Gerlich et al., "Experiments with Trapped Ions and Nanoparticles", Faculty of Natural Science, Technical University of Chemnitz, Chemnitz, Germany, 149-154
	AV	Hars and Tass, "Application of quadrupole ion trap for the accurate mass determination of submicron size charged particles", <i>J. Appl. Phys.</i> , 77:4245-4250 (1995)
	AW	Hunter and Lias, "Evaluated Gas Phase Basicities and Proton Affinities of Molecules: An Update", <i>J. Phys. Chem. Ref. Data</i> , 27:413-416 (1998)
	AX	Kaiser, Jr. et al., "Operation of a Quadrupole Ion Trap Mass Spectrometer to Achieve High Mass/Charge Ratios", <i>Int. J. Mass Spectrom. Ion Processes</i> , 106:79-115 (1991)
	AY	Londry et al., "Enhanced Mass Resolution in a Quadrupole Ion Trap", <i>Rapid Communications in Mass Spectrometry</i> , 7:43-45 (1993)
	AZ	March, "Quadrupole ion trap mass spectrometry: a view at the turn of the century", <i>Int. J. Mass Spectrom.</i> , 200:285-312 (2000)
	AAA	March and Hughes, "Quadrupole Storage Mass Spectrometry", <i>Chemical Analysis</i> , 302 (Table of Contents only) (1989)
	ABB	March and Londry, "Theory of Quadrupole Mass Spectrometry", <i>Practical Aspects of Ion Trap Mass Spectrometry</i> , 1:25-48 (1995)
	ACC	McLuckey et al., "Novel quadrupole ion trap methods for characterizing the chemistry of gaseous macro-ions", <i>Int. J. Mass Spectrom.</i> , 200:137-161 (2000)
	ADD	Noble and Prather, "Real-Time Single Particle Mass Spectrometry: A Historical Review of a Quarter Century of the Chemical Analysis of Aerosols", <i>Mass Spectrometry</i> , 19:248-250 (2000)
	AEE	Nohmi and Fenn, "Electrospray Mass Spectrometry of Poly(ethylene glycols) with Molecular Weights up to Five Million", <i>J. Am. Chem. Soc.</i> , 114:3241-3246 (1992)
	AFF	Schlemmer et al., "Nondestructive high-resolution and absolute mass determination of single charged particles in a three-dimensional quadrupole trap", <i>Journal of Applied Physics</i> , 90:5410-5418 (2001)
	AGG	Schlunegger et al., "Frequency Scan for the Analysis of High Mass Ions Generated by Matrix-assisted Laser Desorption/Ionization in a Paul Trap", <i>Rapid Commun. Mass Spectrom.</i> , 13:1792-1796 (1999)
	AHH	Syka, "Nonlinear Ion Traps", <i>Practical Aspects of Ion Trap Mass Spectrometry</i> , 1:153-166
	AII	Tang and Gomez, "On the structure of an electrostatic spray of monodisperse droplets", <i>Phys. Fluids</i> , 6:2317-2332 (1994)
	AJJ	Van Berkel et al., "Electrospray Ionization Combined with Ion Trap Mass Spectrometry", <i>Anal. Chem.</i> , 62:1284-1286 (1990)
	AKK	Wang and Franzen, "The non-linear ion trap. Part 3. Multipole components in three types of practical ion trap", <i>Int. J. Mass Spectrom. Ion Processes</i> , 132:155-157 (1994)
KF	ALL	Winter and Ortoyann, "Simple demonstration of storing macroscopic particles in a 'Paul trap'", <i>Am. J. Phys.</i> , 59:807-813 (1991)


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	AA	4,383,171	05/10/1983	Sinha et al.	250	282	
	AB	4,540,884	09/10/1985	Stafford et al.	250	282	
	AC	4,749,860	06/07/1988	Kelley et al.	250	282	
	AD	5,170,054	12/08/1992	Franzen	250	292	
	AE	5,270,542	12/14/1993	McMurry et al.	250	288	
	AF	5,382,794	01/17/1995	Downey et al.	250	288	
	AG	5,399,857	03/21/1995	Doroshenko et al.	250	292	
	AH	5,572,025	11/05/1996	Cotter et al.	250	292	
	AI	5,640,010	06/17/1997	T'werenbold	250	281	
	AJ	5,681,752	10/28/1997	Prather	436	173	
	AK	5,696,376	12/09/1997	Doroshenko et al.	250	292	
	AL	5,880,466	03/09/1999	Benner	250	281	
	AM	5,998,215	12/07/1999	Prather et al.	436	173	
	AN	6,040,574	03/21/2000	Jayne et al.	250	288	
	AO	6,157,030	12/05/2000	Sakairi et al.	250	292	
	AP	6,188,065	02/13/2001	Takada et al.	250	288	
	AQ	6,194,716	02/27/2001	Takada et al.	250	292	
KF	AK	6,316,769	11/13/2001	Takada et al.	250	292	

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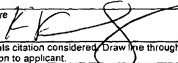
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by Applicant**

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KF	AX	Dahneke, "Aerosol Beam Spectrometry", <i>Nature Physical Science</i> , 244:54-55 (1973)
	AY	Dahneke and Flachsbart, "An Aerosol Beam Spectrometer", <i>Aerosol Science</i> , 3:345-349 (1972)
	AZ	Gard et al., "Real-Time Analysis of Individual Atmospheric Aerosol Particles: Design and Performance of a Portable ATOFMS", <i>Anal. Chem.</i> , 69:4083-4091 (1997)
	AAA	Kaufman et al., "Macromolecule Analysis Based on Electrophoretic Mobility in Air: Globular Proteins", <i>Anal. Chem.</i> , 68:1895-1904 (1996)
	ABB	March, "An Introduction to Quadrupole Ion Trap Mass Spectrometry", <i>Journal of Mass Spectrometry</i> , 32:351-369 (1997)
	ACC	Salt et al., "Aerodynamic Particle Sizing versus Light Scattering Intensity Measurement as Methods for Real-Time Particle Sizing Coupled with Time-of-Flight Mass Spectrometry", <i>Anal. Chem.</i> , 68:230-234 (1996)
	ADD	Schreiner et al., "Chemical Analysis of Polar Stratospheric Cloud Particles", <i>Science</i> , 283:968-970 (1999)
	AEE	Suess and Pratler, "Mass Spectrometry of Aerosols", <i>Chem. Rev.</i> , 99:3007-3035 (1999)
JS	AFF	Wuerker et al., "Electrodynamic Containment of Charged Particles", <i>Journal of Applied Physics</i> , 30:342-349 (1959)
	AGG	Wuerker et al., "Electrodynamic Containment of Charged Particles by Three-Phase Voltages", received by journal on October 17, 1958

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